*Jnne* 13, 1895.

The LORD KELVIN, D.C.L., LL.D., President, in the Chair.

His Royal Highness the Duke of Saxe-Coburg-Gotha (elected March 16, 1882) was admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

I. "On the new Gas obtained from Uraninite. Fourth Note." By J. NORMAN LOCKYER, C.B., F.R.S. Received May 28, 1895.

Continued experiments on the gases obtained by heating the minerals bröggerite and euxenite *in vacuo* have revealed the presence in the spectrum of an important line in the infra-red. By comparisons with the solar spectrum in the first order grating spectrum, the wave-length of the line has been approximately determined as 7065. There can be little doubt, from the observations which have been made, that this new line is coincident with a chromospheric line which occurs in Young's list, having a frequency of 100, of which the wave-length on Rowland's scale is stated to be 7065·5.

It follows therefore that, besides the hydrogen lines, all three chromospheric lines in Young's list which have a frequency of 100 have now been recorded in the spectra of the new gas or gases obtained from minerals by the distillation method.

These are as follows :—

7065·5
5875·98
4471·8

The wave-lengths of the lines are in Rowland's scale, as given in Scheiner's "Astronomical Spectroscopy."* In a partial revision of his chromospheric list, Professor Young gives the *corona* line 5316·79 as also having a frequency of 100 in the chromosphere, but, up to the present, this line has not been observed in the laboratory.

* Frost's translation, p. 184.